AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-30. (Cancelled)

- 31. (Currently Amended) A liquid crystal display device, comprising:
- a liquid crystal panel having a plurality of gate lines and data lines crossing each other, and having red (R), green (G) and blue (B) pixels arranged in a matrix pattern;
- a light source transmitting light through the R, G, and B pixels creating red, green, and blue colors respectively;
 - a gate driving unit for applying scan signals to the gate lines;
- a lookup table for storing gray scale values of image information including R, G and B data, and storing a gray scale value of a [[bit]] <u>gray level</u> of the B data prior to a [[bit]] <u>gray level</u> at which a color reproducibility is reduced, as a gray scale value of [[bits]] <u>gray levels</u> from the [[bit]] <u>gray level</u> at which [[a]] <u>the</u> color reproducibility is reduced to an uppermost [[bit]] <u>gray level</u>,
- wherein the lookup table includes a same initial gray scale value of at least one of the R and G data for all gray levels prior to a gray level at which a color reproducibility is reduced and the lookup table includes different gray scale values of the R and G data to mix with the B gray scale values from a gray level at which the color reproducibility is reduced to an uppermost gray level;
- a data processing unit for compensating image information according to the gray scale value of values in the lookup table; and
- a data driving unit for receiving the compensated image information and applying the compensated image information to the data lines.
- 32. (Currently Amended) The LCD device of claim 31, wherein the gray scale value of the [[bit]] gray levels of the B data prior to a [[bit]] gray level at which a color reproducibility

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is reduced is <u>the</u> same as the gray scale value of the [[bits]] <u>gray levels</u> from the [[bit]] <u>gray level</u> at which a color reproducibility is reduced to the uppermost [[bit]] <u>gray level</u>.

- 33. (Currently Amended) The LCD device of claim 31, wherein the B data has 64 [[bits]] gray levels.
- 34. (Currently Amended) The LCD device of claim 31, wherein the [[bit]] <u>gray level</u> at which a color reproducibility is reduced among the B data is a 52nd [[bit]] <u>gray level</u>.
- 35. (Currently Amended) The LCD device of claim 31, wherein the [[bit]] gray level prior to a [[bit]] gray level where a color reproducibility is reduced among the B data is a 51st [[bit]] gray level.
- 36. (Currently Amended) A method for improving a color reproducibility of a liquid crystal display (LCD) device, the method comprising:

detecting a gray scale value of a [[bit]] gray level at which a color reproducibility is reduced, and a gray scale value of a [[bit]] gray level prior to the [[bit]] gray level at which a color reproducibility is reduced, by measuring a color displayed on a liquid crystal panel with increasing gray scale values of B data among image information including R, G and B data;

storing the gray scale value of the [[bit]] <u>gray level of the B data</u> prior to the [[bit]] <u>gray level</u> at which a color reproducibility is reduced, as a gray scale value of [[bit]] <u>gray level</u> from the [[bit]] gray level at which a color reproducibility is reduced to an uppermost bit;

storing a same initial gray scale value of at least one of the R and G data for all gray levels prior to a gray level at which a color reproducibility is reduced and including different gray scale values of the R and G data to mix with the B gray scale values from a gray level at which the color reproducibility is reduced to an uppermost gray level;

compensating the image information according to the gray scale value level and mixing the gray scale values of at least two of R, G, and B data; and

applying the compensated image information to data lines of the liquid crystal panel.

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37. (Currently Amended) The method of claim 36, wherein the gray scale value of

the [[bit]] gray level prior to the [[bit]] gray level at which a color reproducibility is reduced is

same as the gray scale value of [[bits]] gray levels from the [[bit]] gray level at which a color

reproducibility is reduced to the uppermost bit.

38. (Currently Amended) The method of claim 36, wherein the B data has 64 [[bits]]

gray levels.

39. (Currently Amended) The method of claim 36, wherein the [[bit]] gray level at

which a color reproducibility is reduced among the B data is a 52nd [[bit]] gray level.

40. (Currently Amended) The method of claim 36, wherein the [[bit]] gray level prior

to a [[bit]] gray level where a color reproducibility is reduced among the B data is a 51st [[bit]]

gray level.

41. (New) The liquid crystal display device of claim 1, wherein the lookup table

includes the same initial gray scale value for both R and G data.

42. (New) The method of claim 36, wherein the same initial gray scale value is the

same for both the R and G data.

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